

MANOYLOV, S.Ye.; CHAMIN, N.N.; DASHKEVICH, L.B.; VOLOKHONSKIY, A.G.;  
PUSTOSHKIN, G.I.

Synthesis of some derivatives of adenine. Trudy Len.khim.-farm.  
inst. no.13:49-54 '62. (MIRA 15:10)

1. Kafedra biokhimii (zav. prof. S.Ye.Manoylov) Leningradskogo  
khimiko-farmatsevticheskogo instituta.  
(ADENINE)

I. 1.678-57 FWE(-)/T/EW1(1)/EW1/EW1(E) I.F.(e) 50  
ACC NR: AR6020939

SOURCE CODE: UR/0137/66/000/002/V061/V061

AUTHOR: Shcherbakov, A. I.; Nikulin, A. A.; Okorokov, G. N.; Bochkov, D. A.;  
Boyarskikh, V. A.; Volokhonskiy, L. A.; Polyakov, A. I.

42

41

13

TITLE: The effect of the electric power parameters on a vacuum arc furnace on ingot  
crystallization conditions

SOURCE: Ref. zh. Metallurg, Abs. 2V396

REF SOURCE: Elektrotermiya. Nauchno-tekhn. sb., vyp. 45, 1965, 34-37

TOPIC TAGS: vacuum arc furnace, alternating magnetic field, constant magnetic field

TRANSLATION: An investigation was made of the effect of electric parameters of a  
vacuum arc furnace on crystallization conditions of an ingot, as well as the possi-  
bility of influencing the crystallization process with the use of constant and alternat-  
ing magnetic fields. An analytic and experimental correlation between these parameters  
and the crystallization of an ingot was determined. The relative depth  $h/D$  of a li-  
quid wall was equivalent for molds of different dimensions by maintaining the equality  
 $I/D = \text{constant}$ . The value  $I/D$  suitable for a metal with a small 2-phase region ex-  
tension may serve as the criterion for selection of the electrical melting cycle. For  
a metal with an extended 2-phase region it is necessary to decrease the ingot diameter  
and to decrease the operating current as much as possible in order to prevent segregations.

UDC: 621.365.22-982.001.5

Card 1/2

114578-67

ACC NR: AR6020939

tion defects. The use of an alternating magnetic field prevents structural defects, characteristic of ingots melted in a constant magnetic field, and is a promising method for arc stabilization during vacuum arc melting. 3 figures. G. Lyubimova.

SUB CODE: 13, 20

fv

Card 2/2



1. 57527-55

ACCESSION NR: AR5015150

In the center of the bath,  $d_{el}$  is the diameter of the electrode,  $h_{sl}$  is the total depth of the bath,  $l_{el}$  is the distance between the face of the electrode and the surface of the metal (here and in what follows, subscripts 1 and 2 refer respectively to the projected and the actual furnaces). The power, the resistance of the slag bath, and the working current of the projected furnace are determined by the formula

$$P_1 = kP_2; R_1 = \frac{1}{k} R_2; I_1 = k \cdot I_2.$$

The pressure drop between the face of the electrode and the surface is a constant quantity and is determined by the formula  $U_{sl} = I_1 \cdot R_1 = I_2 \cdot R_2 = \text{constant}$ .  
(from R. Zh. Elektrotehnika)

SUB CODE: MM, EE

ENCL: 00

Card 2/2

16595-66 EWT(1)/EWT(m)/EWP(2) JD  
ACC NR: AR5008998

UR/0137/35/00/00/4015/BG15

AUTHOR: Volokhonskiy, L.A.; Yakobinets, A.B.; Bochkov, D.A.

39

B

ORG: none  
CITED SOURCE: ElekTroTermiya, Nauchno-Tekhn.-. Sb, 1964, Nr 37, p 26-28  
21, 44, 55

TITLE: Power distribution of an arc discharge in a vacuum

SOURCE: Ref. zh. Metallurgiya, Abs. 2B86

TOPIC TAGS: arc furnace, smelting furnace, vacuum arc, arc discharge

ABSTRACT: The approximate stability of an arc power distribution in a vacuum was experimentally proved. In determining the power parameters for electric smelting furnaces, it is recommended to accept the Stokes' coefficient for power distribution in a cathode as equalling 0.48. The expediency of using solenoid for the elimination of leakage points and for possibly obtaining additional power on the tank mirror was proved experimentally.

SUB CODE: 09,13 / SUBM DATE: 00

UDC: 669.187.046.5.621.365

Card 1/1 nst

2

L 27690-66 EWT(m)/EMP(t)/ETI IJP(c) JD

ACC NR: AR6004305

SOURCE CODE: UR/0276/65/000/009/G009/G009

74

AUTHOR: Volokhonskiy, L. A.; Nikulin, A. A.; Bochkov, D. A.; Bortnichuk, N. I. BTITLE: Study of melting hydrodynamics in a vacuum arc furnace by the stimulating method

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 9075

REF SOURCE: Tr. Vses. n.-i. in-ta elektroterm. oborud., vyp. 1, 1965, 66-77

TOPIC TAGS: vacuum arc furnace, vacuum melting, hydrodynamics, molten metal, magnetic field, solenoid

ABSTRACT: The distribution of a current in the molten metal of a vacuum arc furnace is studied, and the forces responsible for the metal rotation: the vertical magnetic field of solenoid and the horizontal component of the arc current. The measurement of hydrodynamic pressures on the molten metal model permitted determination of their distribution along the bath diameter and depth and determination of the melt rotation rate. The most effective stirring of metal is observed in the zone of the anodic spot. Some redistribution of pressures and rates of rotation due to friction forces takes place. As far as the intensity of mixing in presence of a solenoid is concerned, the best effect is obtained when the current cable is attached to the upper edge of the crystallizer, in which case the horizontal component of the current has the highest magnitude. In melting steel tending to ghost, it is advisable to use

Card 1/2

UDC: 66.047.2; 621.365.2.001.5

2

L 27690-66

ACC NR: AR6004305

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a bifilar cable with an attachment to the upper flange of the crystallizer. In this case, in the absence of a solenoid there is no rotation of the metal. It is possible to use a solenoid on a steel crystallizer. In designing them correction for the screening effect, which is determined by modeling, should be made. O. Prove

SUB CODE: 11/ SUBM DATE: none

Card 2/2 C/C

L 29534-00 EII(m)/ ENP(t)/EII JD

ACC NR: AR6004304

SOURCE CODE: UR/0276/65/000/009/G009/G009

18

B

AUTHOR: Yolokhonskiy, L. A.TITLE: Basic parameters and the heat balance in scalp melting \*

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 9G74

REF SOURCE: Tr. Vses. n.-i.in-ta elekroterm. oborud., vyp. 1, 1965,  
89-101TOPIC TAGS: metallurgic furnace, ~~one furnace~~, smelting furnace,  
~~METAL MELTING, HEAT BALANCE~~ABSTRACT: As a result of heat process-analyses it was determined that the basic parameters in scalp melting\* are the speed of melting, the overheating temperature and the change of the scalp thickness. The heat transfer coefficient on the surface of the phase separation is theoretically calculated and experimentally measured. In calculating parameters for furnace with a graphite crucible it is recommended that it be considered equal to 1500 kcal/m<sup>2</sup>h C. The heat smelting balance of a working furnace is designed and verified. Based on this, a method of calculating electrofurnace parameters is worked out. O. Prove.

SUB CODE: 11/ SUBM DATE: none

\* Prob

Card 1/1 LS

UDC: 621.745:621.365.2:66.04.82

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860710008-0

VOLOKHONSKIY, L., kand.tekhn.nauk

Rotating sails. IUn.tekh. 7 no.9:34-35 S '62.  
(Rotor ships)

(MIRA 16:6)

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860710008-0"

VOLOKHONSKIY, L.Sh.

Theory of currents of shallow seas. Trudy GOIN no. 74:3-32  
'63. (MIRA 16:7)

(Ocean currents)

L 46001-66 EWT(m)/EWP(k)/EXP(t)/ETI JD  
ACC NR: AR6028427

SOURCE CODE: UR/0137/66/000/005/V041/V041

AUTHOR: Bochkov, D. A.; Volokhonskiy, L. A.; Nikol'skiy, L. Ye.

25  
B

TITLE: Simplified method for calculating the parameters of vacuum arc  
furnaces for melting rectangular ingots

SOURCE: Ref. zh. Metallurgiya, Abs. 5V261

REF SOURCE: Elektrotermiya. Nauchno-tekhn. sb., vyp. 48, 1965, 19-22

TOPIC TAGS: vacuum arc furnace, ingot, round ingot, energy parameter

ABSTRACT: A simplified procedure has been developed at the All-Union  
Scientific Research Institute of Electrothermal Equipment (VNIETO) for calculat-  
ing the power energy parameters of vacuum arc furnaces for round ingots. The  
method, which is based on the distribution constant of arc power between the  
cathode and anode, allows computation of arc power without compiling the heat  
balance of the ingot. D. Kashayeva. [Translation of abstract] [NT]

SUB CODE: 13/

Card 1/1 ULR

UDC: 669.187.2:621.365.22-982.001.5

L 31968-66 EWT(1) GW  
ACC NR: AT6016352

(N)

SOURCE CODE: UR/2634/65/000/087/0003/0031

AUTHOR: Volokhonskiy, L. Sh.24  
B+1

ORG: none

TITLE: Nonlinear dynamic problems of shallow seasSOURCE: Moscow. Gosudarstvennyy okeanograficheskiy institut, Trudy, no. 87, 1965.  
L'dy i termika morey (Ice and thermal conditions of seas), 3-31

TOPIC TAGS: ocean dynamics, differential equation

ABSTRACT: Certain nonlinear dynamic problems of shallow seas have been investigated. An attempt was made to generalize from the method of sources with an addition to the problem of a joint determination of the velocity field and the nonhorizontality and mobility of the free surface of shallow seas. Differential equations determining the initial conditions were derived. Orig. art. has: 90 formulas. [NT]

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 028/ OTH REF: 006

Card 1/1 JC

UDC: 517.947+532. 516+551.461.2+551.465

L 46776-66 EWT(d)/EWT(m)/EWP(v)/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(l) JD/WW/JG  
ACC NR: AR6014546 SOURCE CODE: UR/0196/65/000/011/N003/N003

AUTHOR: Volokhonskiy, L. A.; Nikulin, A. A.; Bochkov, D. A.; Bortnichuk, N. I. 35  
B

TITLE: Investigation of the hydrodynamics of a melt in a vacuum arc furnace by a  
simulation method 16 14

SOURCE: Ref. zh. Elektrotehnika i energetika, Abs. 11N10

REF SOURCE: Tr. Vses. n.-i. in-ta elektroterm. oborud., vyp. 1, 1965, 66-77

TOPIC TAGS: arc furnace, vacuum furnace, melt hydrodynamics

ABSTRACT: Current distribution in a liquid bath of a vacuum arc furnace has been studied, and the causes of metal rotation have been determined; they are: vertical magnetic field of solenoid and horizontal component of arc current. By measuring hydrodynamic pressures in a liquid-metal model, the pressure distribution over the diameter and depth of the bath were found and the melt rotation speeds were determined. The metal is agitated particularly vigorously in the anode-spot zone, some redistribution of pressures and velocities being effected by the forces of friction. From the viewpoint of intense mixing, in a solenoid-type design, the current-supply conductor to the upper flange of the crystallizer is more efficient because the horizontal current component is greater. Twelve figures. Bibliography of 4 titles. O. Provs [Translation of abstract]

SUB CODE: 13 09

Card1/1 16h

UDC: 621.365.22.001.5:66.041.82:538.12:532.5:54-143

L 42058-66 ENT(m)/T DS

ACC NR: AR6013856

(A,N)

SOURCE CODE: UR/0276/65/000/011/G017/G017

AUTHORS: Volokhonskiy, L. A.; Novitskiy, G. S.; Polin, I. V.

TITLE: Heat produced by an electrode used in an electric vacuum arc furnace with a lining

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 11G140

REF SOURCE: Tr. Vses. n.-i. in-ta elektroterm. oborud. vyp. 1, 1965, 77-88

TOPIC TAGS: vacuum arc furnace, electrode, heat, heat balance, ELECTRODE PROPERTY

ABSTRACT: Formulas for calculating temperature fields of a working electrode have been derived in the course of this work and were verified experimentally. It was shown that the distribution of temperatures along the cross section of an electrode may be considered uniform through the entire period of melting. During the lining melting, the axial temperature field changes only insignificantly. The established heat regime is reached over a long period of time. It would be proper to heat the electrode to increase the speed of its melting. The formulas derived may be used to calculate the heat balance during melting in the lining. 11 illustrations.  
Bibliography of 4 titles. [Translation of abstract]

SUB CODE: 13

Card 1/1 af

UDC: 621.365.2:66.047.2.036.61

ACC NR: AR6025710

SOURCE CODE: UR/0196/66/000/004/N002/N002

AUTHOR: Bortnichuk, N. I.; Volokhonvskiy, L. A.; Gogol', V. B.; Smelyanskiy, M. Ya.

TITLE: Investigation of stability of high-power arc discharge in vacuum

SOURCE: Ref. zh. Elektrotehnika i energetika, Abs. 4N11

REF SOURCE: Elektrotermiya. Nauchno-tekhn. sb. vyp. 46, 1965, 33-36

TOPIC TAGS: vacuum furnace, arc furnace, melting furnace

ABSTRACT: To improve the explosion safety of vacuum arc furnaces, a system of stabilization of arc discharge is necessary which would prevent the arc from throwing over to the crystallizer wall and would cope rapidly enough with such a throw-over if it occurs. Peculiarities of vacuum arc discharge were investigated which permits recommending measures for improving the explosion safety of vacuum arc furnaces without resorting to any basic change in their design. A solenoid constantly on during the melting and producing a 60-oe vertical field is recommended. To eliminate the solenoid fringe effect, an additional solenoid connected in series with the main one and producing a vertical field in the same direction should be placed at the bottom of the crystallizer, under its tray. To eliminate side discharges, a field of 100 oe is needed. Also, shorter arcs are recommended. Five figures. Bibliography of 3 titles. I. Kaganovskiy [Translation of abstract]

SUB CODE: 13, 09

Card 1/1

UDC: 621.365.91:537.523.5:533.5.001.5

ACC NR: AR6027498

SOURCE CODE: UR/0137/66/000/004/V051/V051

AUTHOR: Nikulin, A. A.; Bochkov, D. A.; Filimonova, M. A.; Artem'yev, V. D.; Volokhonskiy, L. A.

TITLE: Experimental study of ingot heat balance during the remelting of a consumable electrode

SOURCE: Ref. zh. Metallurgiya, Abs. 4V348

REF SOURCE: Elektrotermiya. Nauchn-tekhn. sb., vyp. 47, 1965, 42-43

TOPIC TAGS: vacuum arc furnace, heat balance

TRANSLATION: A special crystallizer with graded walls was constructed for the experiment. It was established that the heat transfer rate through the bottom plate in a vacuum arc furnace was  $0.42 \cdot 10^6$  kcal/m<sup>2</sup>·hr when the bottom of the crystallizer was covered with a plate. In the contact zone of the ingot, the heating rate on the walls of the crystallizer was about  $(0.3-0.8) \cdot 10^6$  kcal/m<sup>2</sup>·hr. During steady arc burning, the heating rate on the crystallizer walls above the level of the metal was about  $(0.4-0.6) \cdot 10^6$  kcal/m<sup>2</sup>·hr. Above the flux surface (during cycle without arcing), the heat transfer rate did not exceed  $0.2 \cdot 10^6$  kcal/m<sup>2</sup>·hr. In the stable regime, heat output to the crystallizer walls was produced by means of an ordinary water cooling system with water flow in the crystallizer. For a water velocity greater than 1 m/sec, a

UDC: 669:621.365.22-982.001.5

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ACC NR: AR6027498

cooling convection cycle can be produced without the danger of the heavy precipitation of hard salt. The specific heat transfer rate can be decreased somewhat by using lower water velocities, as well as by increasing the crystallizer wall thickness. 4 figures, 1 table.

SUB CODE: 11,13

Card 2/2

VOLOKHONSKIY, L.Sh.

Hydrobarometric resonance in an infinite channel. Trudy GOIN  
no.74:45-48 '63. (MIRA 16:7)

(Waves)

VOLOKHONSKIY, L.Sh.

Two-dimensional theory of the difference in the level of shallow  
seas. Trudy GOIN no.69:3-27 '62. (MIRA 15:11)  
(Neva River estuary--Flood forecasting)

VOLOKHONSKIY, L.Shr.; STIUZER, L.R.

Rotary apparatus for measuring the velocity vector of continuous  
media. Trudy GGO no.108:64-72 '60. (MIRA 13:11)  
(Flow meters)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860710008-0

VOLOKHONSKIY, I.. Sh.

"Theory of Ground Freezing," Works of the Main Geophysical Observatory im. A. I.  
Voyekov, No. 19 (81), Leningrad, 1950.

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860710008-0"

VOLOKHONSKIY, L.Sh.

Stand for model studies of waves. Okeanologija 1 no.6:1085-1089  
'61. (MIRA 15:1)

1. Gosudarstvennyy okeanograficheskiy institut, Leningradskoye  
otdeleniye.  
(Waves)

LADYZHENSKAYA, Ol'ga Aleksandrovna; VOLOKHONSKIY, L.Sh., red.;  
LUK'YANOV, A.A., tekhn. red.

[Mathematical aspects of the dynamics of a viscous incompressible fluid] Matematicheskie voprosy dinamiki viazkoi neszhimemoi zhidkosti. Moskva, Izd-vo fiziko-matem. lit-ry, 1961.  
203 p. (MIRA 15:2)

(Hydrodynamics)

VOLOKHONSKIY, L.Sh.

Dynamic processes in shallow seas. Trudy GCIN no. 81:3-13 '62.  
(MIRA 17:11)

VOLOKHONSKY, L.V.

Theory of currents in shallow seas. *Okeanologija* 4 no.52921-922  
'64 (MIRA 1821)

Volokhonskiy, N.V.

S/081/60/000/012(II)/009/010  
A006/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 12 (II), p. 500,  
# 48491

AUTHORS: Fedot'yev, N.P., Aleskovskiy, V.B., Vyacheslavov, P.M., Volokhonskiy,  
N.V., Romanova, D.L.

TITLE: Microhardness and the Degree of Purity of Electrolytic Cobalt<sup>1</sup>  
Surfaces

PERIODICAL: Tr. Leningr. tekhnol. in-ta im. Lensoveta, 1959, No. 53, pp. 37-42

TEXT: The authors studied the effects on microhardness and electrolytic  
Co surface roughness of the thickness of the coating, pH of the electrolyte,  $D_c$ ,  
temperature and the anode material. It is established that microhardness in-  
creases and roughness decreases with a reduced thickness of the deposit, pH  
raising from 3.5 to 5, increase in  $D_c$  to 2.5 amp/dm<sup>2</sup> and dropping temperature.  
An equation is derived on the correlation of the roughness degree with the  
microhardness of the cobalt deposits :  $H = Kh^n$  where H is the microhardness,

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(1)

S/081/60/000/012(II)/009/010  
A006/A001

**Microhardness and the Degree of Purity of Electrolytic Cobalt Surfaces**

$\text{kg/mm}^2$ ;  $h$  is the degree of roughness,  $\mu$  (?),  $K$  and  $n$  are the coefficients depending on the nature on the metal deposited. ( $K = 275$  and  $n = 0.08$  for Co). To obtain Co deposits with a high degree of roughness, the authors recommend a  $\text{CoSO}_4 \cdot 7\text{H}_2\text{O}$  solution of 200 g/l; pH 2 - 3.5, temperature  $60 - 70^\circ\text{C}$ ,  $D_c = 10-25$  amp/dm<sup>2</sup>, and a Pb anode.

The authors' resume

Card 2/2

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CIA-RDP86-00513R001860710008-0

FEDOT'YEV, N.P.; ALESKOVSKIY, V.B.; VYACHESLAVOV, P.M.; VOLOKHONSKIY, N.V.;  
ROMANOVA, D.L.

Microhardness and degree of surface purity of electrolytic  
cobalt. Trudy LTI no.53:37-42 '59. (MIRA 14:3)  
(Cobalt) (Electrolysis)

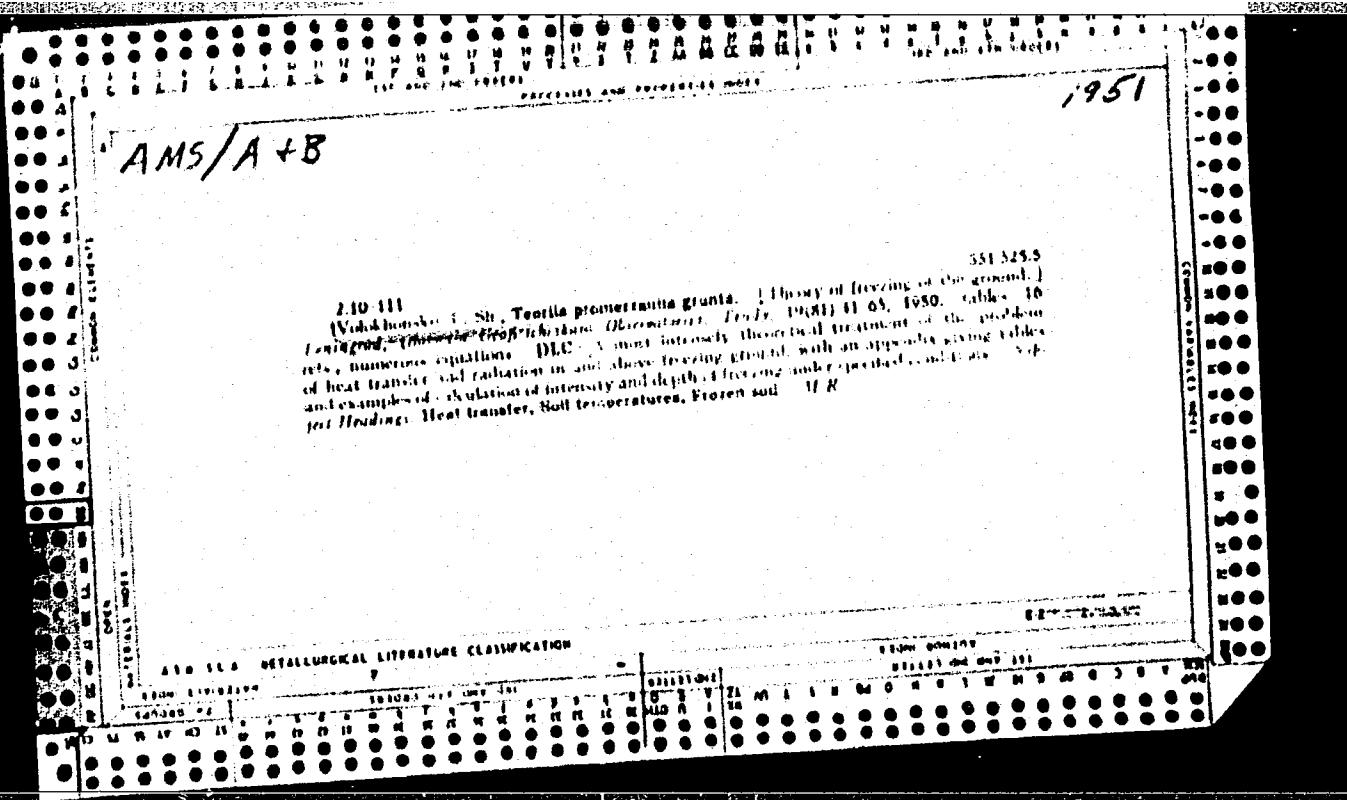
APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860710008-0"

VOLOKHONSKIY, N.G., inzh.; GUREVICH, A.A., inzh.; KOMLEV, A.I., inzh.

New devices designed by the Planning and Design Institute of  
Overall Automation of the Food Industry. Mekh. i avtom. proizv.  
17 no. 5:25-27 My '63. (MIRA 16:6)

(Food industry) (Automation)



GLUSHKO, M.F., kand.tekhn.nauk; VOLOKONSKY, V.F., kand.tekhn.nauk

Bend of the wires of a cable on contact with the pulley. Izv. vys.  
ucheb. zav.; gor. zhur. 5 no.10:115-120 '62. (MIRA 15:11)

1. Khar'kovskiy gornyy institut. Rekomendovana kafedroy gornoj  
mekhaniki.  
(Wire rope) (Strains and stresses)

VOLOKHOV, Aleksandr, A.

"Analysis of Some Forms of Reflex Activities in Embryogenesis." Zef. Zhur., Vol 33,  
No 3, 1947, p 361. Inst of Evolutionary Physiology and Pathology of Higher Nervous  
Activity imeni Adademician I. P. Pavlov, Acad Med Sci USSR.

SO: U- 4396

VOLOKHOV, A. A.

VOLOKHOV, A.A; OBRAZTSOVA, G.A.

Effect of decreased partial oxygen pressure on the function of the nervous system in ontogenesis; disturbance of the locomotor function in hypoxia. Fiziol. zh. SSSR 36 no.4:450-456 July-Aug 50.  
(CMLL 20:4)

1. Institute of Evolutionary Physiology and Pathology of Higher Nervous Activity imeni Academician I.P.Pavlov of the Academy of Medical Sciences.

VOLOKHOV, A.A.

VOLOKHOV, A.A.; OBRAZTSOVA, G.A.

Effect of decreased partial oxygen pressure on the function of the nervous system in ontogenesis; modification of respiratory function in hypoxia. Fiziol.zh.SSSR 36 no.5:545-551 Sept-Oct 50. (CLML 20:4)

1. Institute of Evolutionary Physiology and Pathology of Higher Nervous Activity imeni Academician I.P. Pavlov of the Academy of Medical Sciences USSR.

2. Experiments conducted on rabbits.

VOLOKHOV, A. A.; OBRAZTSOVA, G. A.

Effect of exclusion of the visual apparatus in early ontogenesis  
on subsequent development of the reflex function. Fiziol. zh.  
SSSR 37 no. 4:453-460 July-Aug. 1951. (CIML 21:3)

1. Institute of Physiology imeni Academician I. P. Pavlov of the  
Academy of Medical Sciences USSR.

VOLOKHOV, A.A.

15th conference on the higher nervous function dedicated to 50th  
anniversary of the theory on conditioned reflexes. Zh. vysshei nerv.  
deiat. 2 no. 3:441-452 May-June 1952. (CML 23:3)

VOLOKHOV, A. A.

Physiology - Societies, Etc.

Sixth session of the Scientific Council on the problems of physiological studies of Academician I. P. Pavlov. Vest. AN SSR, 22, No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 1952 <sup>1953</sup>. Unclassified.

VOLOKHOV, A. A.; KOBYSH, V.I.; NOVIKOV, E.O.

Method for recording respiration by means of a thermistor. Zhur. vys.nerv.deiat. 6 no.2;342-345 Mr-Apr '56. (T21 918)

1. Laboratoriya sravnitel'noe ontogeneza nervnoy sistemy Instituta normal'ney i patologicheskoy fiziologii AMN SSSR.

(RESPIRATION, function tests

spirometry of laboratory animals during experimentation,  
appar. & method)

(LABORATORY ANIMALS

appar. & method for spirometry during experimentation

LEPESHINSKAYA, O.B., professor; USIYEVICH, M.A., professor; ASRATYAN, E.A., professor; SMIRNOV, A.I., professor; FILIPPOVICH, S.I., doktor meditsinskikh nauk; VOLOKHOV, A.A., professor; FILIMONOV, I.N., professor; SNYAKIN, P.G., professor; CHERNIGOVSKIY, V.N., professor; SPERANSKIY, A.D., akademik; DOLIN, A.O., doktor meditsinskikh nauk; KOTLYAREVSKIY, L.I., professor; NEGOVSKIY, V.A., professor; KASATKIN, N.I., professor; STEL'CHUK, I.V., professor; YEGOROV, B.G., professor; BAKULEV, A.N., professor; SMIRNOV, L.I., professor; USPENSKIY, V.N., redaktor; PETROV, S.P., redaktor.

[Teachings of I.P.Pavlov in theoretical and practical medicine]  
Uchenie I.P.Pavlova v teoreticheskoi i prakticheskoi meditsine. Vol.2.  
Moskva, Izd-vo Ministerstvo zdravookhraneniia SSSR, 1953. 611 p.  
(MIRA 7:3)

1. Deystvitel'nyy chlen AMN SSSR (for Lepeshinskaya, Chernigovskiy and Bakulev).
2. Chlen-korrespondent Akademii nauk SSSR (for Asratyan).
3. Chlen-korrespondent AMN SSSR (for Smirnov, Filimonov, Yegorov and L.I.Smirnov).
4. Moscow. Tsentral'nyy institut usovershenstvovaniya vrachey (Pavlov, Ivan Petrovich, 1849-1936) (Nervous system) (Physiology)

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CIA-RDP86-00513R001860710008-0

VOLOKHOV, A. A.

"The Problem of Neuro-Humoral Relationships," Vest. Ak. Med. Nauk SSSR, No.2,  
pp 51-67, 1954

Translation Sum.No.447, 19 Aug 55

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CIA-RDP86-00513R001860710008-0"

VOLOKHOV, A.A.

Sleep therapy; on the results of a special conference dedicated  
to problems of the experimental basis for sleep therapy. Zhur.vys.  
nerv.deiat. 4 no.4:591-598 Jl-Ag '54. (MLRA 8:3)  
(SLEEP, therapeutic use)

VOLOKHOV, A.A.

"ON THE RELATIONSHIP BETWEEN THE SOMATIC AND VEGETATIVE  
REACTIONS IN ONTOGENESIS"

pp. 205, Reports given at the 20th International  
Congress of Physiologists, Brussels, 30 Jul-4 Aug 56

Translation E-5368

VOLOKHOV, A. A.  
VOLOKHOV, A.A., professor

Leon Abgarovich Orbeli; on his 75th birthday. Biul.eksp.biol. i med.  
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CIA-RDP86-00513R001860710008-0

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Institute of Normal and Pathological Physiology, USSR Academy of Medical Sciences,  
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(REFLEX, CONDITIONED,  
relation to unconditioned reflexes in young animals  
(Rus))

(REFLEX,  
unconditioned, relation to conditioned reflexes in  
young animals (Rus))

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Institute of Normal and Pathological Physiology, U.S.S.R.  
Academy of Medical Sciences, Moscow.  
(HEART - physiology)  
(RESPIRATION - physiology)  
(REFLEX, CONDITIONED)  
(REFLEX)

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1. Akademiya meditsinskikh nauk SSSR, Moscow.  
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Report submitted to the Czech. Medical Congress, Medical Society of  
J.E. Purkyne, Prague, Czech. 12-17 Nov 1962

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Stereotaxic brain atlas of young rabbits. Zbir. vys. nerv. deiat.  
16 no. 1:145-184 Ja-F '66 (MIRA 19:2)

1. Laboratoriya srovnitel'nogo ontogeneza nervnoy sistemy  
Instituta mozga AMN SSSR. Submitted August 15, 1965.

L 57477-65  
ACCESSION NR: AP5014192

UR/0385/65/001/001/0084/0097  
612.822.3+612.825.54+612.826+612.84

AUTHOR: Volchkov, A. A.; Shilyagina, N. S.

10

**TITLE:** Characteristic ontogenetic features in the functional development of the cortical and subcortical divisions of the visual analyzer

SERCF: Zhurnal evolutsionnoy biokhimii : fiziologiya, v. 1, no. 1, 1965, 26-57

TOPIC TAGS: visual analyzer, cortex, brain, subcortex, brain wave, central nervous system

**ABSTRACT:** Two forms of spontaneous electrical activity were observed in the yellow-am littoral snail, *Littorina littorea*. One was a low-threshold, short duration, high-frequency burst of spikes, and the other was a long duration, low-threshold, low-frequency burst of spikes.

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ACCESSION NR: AP5014192

reticular formation is similar to that in the adult animal. Spontaneous and evoked activity in the subcortical divisions of the visual analyzer undergo with age the same basic changes as in the visual cortex but sooner, i.e. it increases in amplitude and becomes stabilized in frequency. At 7-8 days of age, evoked potentials to optic nerve stimulation are first recorded in the visual cortex, but not in the reticular structures. At the 11th day, the response in the visual cortex is more pronounced and the amplitude of the evoked potential is higher. Between 14 and 16 days, the amplitude of the evoked potential in the visual cortex reaches its maximum. After 18 days, the amplitude of the evoked potential decreases. The decrease in amplitude of the evoked potential is accompanied by a decrease in the frequency of the oscillations. The frequency of the oscillations in the visual cortex at 18 days is 10-12 cps. At 20 days, the frequency of the oscillations in the visual cortex is 8-10 cps. At 22 days, the frequency of the oscillations in the visual cortex is 6-8 cps. At 24 days, the frequency of the oscillations in the visual cortex is 4-6 cps. At 26 days, the frequency of the oscillations in the visual cortex is 2-4 cps. At 28 days, the frequency of the oscillations in the visual cortex is 1-2 cps. At 30 days, the frequency of the oscillations in the visual cortex is 0.5-1 cps. At 32 days, the frequency of the oscillations in the visual cortex is 0.2-0.5 cps. At 34 days, the frequency of the oscillations in the visual cortex is 0.1-0.2 cps. At 36 days, the frequency of the oscillations in the visual cortex is 0.05-0.1 cps. At 38 days, the frequency of the oscillations in the visual cortex is 0.02-0.05 cps. At 40 days, the frequency of the oscillations in the visual cortex is 0.01-0.02 cps. At 42 days, the frequency of the oscillations in the visual cortex is 0.005-0.01 cps. At 44 days, the frequency of the oscillations in the visual cortex is 0.002-0.005 cps. At 46 days, the frequency of the oscillations in the visual cortex is 0.001-0.002 cps. At 48 days, the frequency of the oscillations in the visual cortex is 0.0005-0.001 cps. At 50 days, the frequency of the oscillations in the visual cortex is 0.0002-0.0005 cps. At 52 days, the frequency of the oscillations in the visual cortex is 0.0001-0.0002 cps. At 54 days, the frequency of the oscillations in the visual cortex is 0.00005-0.0001 cps. At 56 days, the frequency of the oscillations in the visual cortex is 0.00002-0.00005 cps. At 58 days, the frequency of the oscillations in the visual cortex is 0.00001-0.00002 cps. At 60 days, the frequency of the oscillations in the visual cortex is 0.000005-0.00001 cps. At 62 days, the frequency of the oscillations in the visual cortex is 0.000002-0.000005 cps. At 64 days, the frequency of the oscillations in the visual cortex is 0.000001-0.000002 cps. At 66 days, the frequency of the oscillations in the visual cortex is 0.0000005-0.000001 cps. At 68 days, the frequency of the oscillations in the visual cortex is 0.0000002-0.0000005 cps. At 70 days, the frequency of the oscillations in the visual cortex is 0.0000001-0.0000002 cps. At 72 days, the frequency of the oscillations in the visual cortex is 0.00000005-0.0000001 cps. At 74 days, the frequency of the oscillations in the visual cortex is 0.00000002-0.00000005 cps. At 76 days, the frequency of the oscillations in the visual cortex is 0.00000001-0.00000002 cps. At 78 days, the frequency of the oscillations in the visual cortex is 0.000000005-0.00000001 cps. At 80 days, the frequency of the oscillations in the visual cortex is 0.000000002-0.000000005 cps. At 82 days, the frequency of the oscillations in the visual cortex is 0.000000001-0.000000002 cps. At 84 days, the frequency of the oscillations in the visual cortex is 0.0000000005-0.000000001 cps. At 86 days, the frequency of the oscillations in the visual cortex is 0.0000000002-0.0000000005 cps. At 88 days, the frequency of the oscillations in the visual cortex is 0.0000000001-0.0000000002 cps. At 90 days, the frequency of the oscillations in the visual cortex is 0.00000000005-0.0000000001 cps. At 92 days, the frequency of the oscillations in the visual cortex is 0.00000000002-0.00000000005 cps. At 94 days, the frequency of the oscillations in the visual cortex is 0.00000000001-0.00000000002 cps. At 96 days, the frequency of the oscillations in the visual cortex is 0.000000000005-0.00000000001 cps. At 98 days, the frequency of the oscillations in the visual cortex is 0.000000000002-0.000000000005 cps. At 100 days, the frequency of the oscillations in the visual cortex is 0.000000000001-0.000000000002 cps.

Card 2/3

L 57477-65

ACCESSION NR. AP5014192

ASSOCIATION: Laboratoriya srovnitel'nogo ontogeneza nervnoy sistemy Instituta  
mozga AMN SSSR, Moscow ( Laboratory of Comparative Ontogeny of the Nervous System,  
Institute of the Brain, AMN SSSR )

SUBMITTED: 17Aug64

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Card 3/3

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45-47 My '65. (MIRA 18:7)

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CIA-RDP86-00513R001860710008-0"

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red.; TUPITSYNA, L.A., red.

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QA911.M65 no. 336

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress,  
1955

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Summary in English.

Bibliography: p. h7.

Title tr.: Methods of differences of numerical integrations of ordinary differential equations-

QA911.M65 no. 314

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

38182. VOLOKHOV, A. S.

Nekotoryye dannyye o khimicheskoy sostave i pitatel'noy tsennosti korzovykh rasteniy zimnikh pastbishch "chernyye zemli". (Referat). Sov. Zootekhnika, 1949, No 8, s. 107-09

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1. Spetsial'noye konstruktorskoye byuro zavoda im. 15-letiya Leninskogo kommunisticheskogo soyuza molodezhi Ukrayny.  
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Spring disc braking system for hoists. Ugol' Ukr. 4 no.1:  
32 Ja '60.  
(Hoisting machinery--Brakes) (MIRA 13:5)

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CIA-RDP86-00513R001860710008-0

SVIRIDENKO, V.V.; VOLOKHOV, A.V.

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40-44 Mr '61.

(MIRA 17:1)

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VOLOKHOV, A.Yu.; SAGAN', I.I.

Pump for viscous liquids. Sakh.prom. 33 no.3:35-37 Mr '59.  
(MIRA 12:4)

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tekhnologicheskiy institut pishchevoy promyshlennosti im.  
Nikoyana (for Sagan').  
(Pumping machinery)

VOLOKHOV, D.YU.  
OSADCHIY, A.I. VOLOKHOV, A.I.

Dynamic balancing of centrifugal drums. Sakh. prov. 30 no.12:28-  
30 D '56. (MLRA 10:1)

1. Velike-Oktyabr'skiy sakharneyy zavod.  
(Centrifuges)

KHOMCHUK, G.A.; VOLOKHOV, A.Yu.

Installation for the drying of sugar in a fluidized bed. Sakh.prom.  
37 no.7:18-22 J1 '63. (MIRA 16:7)

1. Khar'kovskiy sovet narodnogo khozyaystva.  
(Sugar--Drying)  
(Fluidication)

ACC NR: AP6036696

(A)

SOURCE CODE: UR/0170/66/011/005/0582/0586

AUTHOR: Volokhov, G. M.

ORG: Institute of Heat and Mass Transfer, AN BSSR, Minsk (Institut teplo i massobmena  
AN BSSR)TITLE: Determination of the temperature diffusion coefficient in problems with combi-  
nations of boundary conditions

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 11, no. 5, 1966, 582-586

TOPIC TAGS: heat diffusion, thermal diffusion, heat conductivity

ABSTRACT: A unified method for solving temperature diffusion problems with combina-  
tions of boundary conditions is developed and confirmed experimentally. Simple rela-  
tions for the temperature diffusion coefficients for plate samples with combined first  
and second type boundary conditions are obtained from the solutions. It is shown, spe-  
cifically, that the characteristic quantity (rate of change of heating) remains con-  
stant when combinations of boundary conditions are used. This method is also appli-  
cable to spherical geometrics when appropriate forms of solutions are used. To check  
the accuracy and validity of the method, testing of discs and square plates were per-  
formed. The test equipment and procedures permitting the choice of a variety of bound-  
ary conditions are described. The typical deviation of the measured coefficient of

UDC: 536.2.01

Card 1/2

ACC NR: AP6036696

diffusivity from those reported in the literature ranged from 3 to 6%. Maximum deviation from the value obtained using the computational technique developed by the author did not exceed 10 to 12%. This deviation is ascribed to the fact that the solutions used in this work were for one-dimensional problems and that contact resistance to temperature distribution occurred in the test equipment. This method is shown to be more suitable for studies of thermophysical properties than the methods presently available.  
Orig. art. has: 9 formulas.

SUB CODE: 20,13/ SUBM DATE: 13Jun66/ ORIG REF: 004

Card - 2/2

VOLOKHOV, G.M.; IVASHKEVICH, E.V.; SURKOV, G.A.

Nonstationary method for determining thermal characteristics of  
nonmetallic materials. Inzh.-fiz. zhur. ? no.12:39-44 D '64  
(MIRA 18:2)

1. Institut teplo- i massoobmena AN BSSR, Minsk.

L 08:80-67 EMT(1) SCTB DD/I'D

ACC NR: AP6011274

SOURCE CODE: UR/013/66/000/006/0133/0133

33  
P

AUTHORS: Karpokin, V. V.; Rybalko, A. P.; Volokhov, I. I.

ORG: none

TITLE: A self-contained gas-heat pressurized suit. Class 61, No. 180098 [announced by Central Scientific Research Laboratory for High-Altitude Rescue Matters (Tsentral'naya nauchno-issledovatel'skaya laboratoriya po gornospasatel'nomu delu)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 133

TOPIC TAGS: space suit, pressure suit, protective clothing

ABSTRACT: This Author Certificate presents a self-contained gas-heat protective space suit. The outfit consists of a suit of heat-resistant fabric with a rigid cuirass and helmet. A tank with a liquid gas, for example, oxygen, connects with the internal cavity of the space suit (see Fig. 1). The design provides normal breathing without regeneration of the exhaled air. An evaporation rate regulator is mounted on the tank. The regulator is a sylphon bellows connecting with the valve of the liquid gas supply. The inner cavity of the sylphon bellows connects with the atmosphere which is enclosed in the casing which connects with the space suit cavity. In order to automatically maintain a given temperature in the space suit a thermorelay is mounted on the tank. The thermorelay is designed in the form of an increased

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Card 1/2

L 08580-67

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Fig. 1. 1 - tank with liquid oxygen; 2 - evaporation regulator; 3 - valve for the liquid gas supply; 4 - sylphon bellows; 5 - casing of the sylphon bellows; 6 - thermorelay; 7 - central perforated tube; 8 - perforated network; 9 - gas discharge tube



supply of gas connected with the valve by the sylphon bellows. This gas supply is filled with a liquid having a low boiling temperature, for example, Freon. To increase the space factor of the tank and insure takeoff of the gas with any position of the space suit, a central perforated tube and a perforated distributing network are mounted on the tank. A gas discharge tube is located inside the perforated tube. The upper rim of this discharge tube is positioned in such a way that any plane passing through the center of the discharge tube divides the tank into two parts equal in volume. Orig. art. has: 1 figure.

SUB COLE: 06, 22/ SUBM DATE: 31Jul64

Caro 2/2

VOLOKHOV, I. M.

Ultrabasic breccia in central Tuva. Trudy Gor.-geol.inst.zap.-  
Sib.fil.AN SSSR no.17:99-116 '56. (MIRA 13:5)  
(Tuva Autonomous Province--Breccia)

VOLOKHOV, I.M.

PHASE I BOOK EXPLOITATION SOV/1485

3(5)

Pinus, Georgiy Vladimirovich, Valeriy Alekseyevich Kuznetsov and Ivan Mikhaylovich Volokhov

Giperbazity Altaye-Sayanskoy skladchatoy oblasti (Ultrabasic Rocks of the Altay-Sayan Folded Region) Moscow, Izd-vo AN SSSR, 1958.  
293 p. 1,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut geologii i geofiziki.

Resp. Ed.: A.P. Lebedev; Ed. of Publishing House: G.G. Mergasov; Tech. Ed.: P.S. Kashina.

PURPOSE: The textbook is intended for exploration geologists engaged in the search for minerals genetically related to ultrabasic rocks.

COVERAGE: This is the first summary treatment of the ultrabasic rocks of the Altay-Sayan folded region. The book describes the various ultrabasic zones, the distribution of both zones and massifs, the petrographic characteristics of rocks and related formations, as well as the petrochemical characteristics of the complex. In addition to

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## Ultrabasic rocks (Cont.)

citing the current opinions of other authorities, the writers offer their own concepts on magmatics and the origin of the ultrabasic rocks of the region. There are 59 diagrams, 14 tables, and 213 references of which 184 are Soviet, 25 English, 2 German, 1 Dutch, and 1 French.

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## Tuva

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1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR,  
Novosibirsk. (Sayan Mountains--Geology)

*Hyperbaitee*

VOLOKHOV, I.I., Cand Geol Min Sci--(disc) "Hyperbaitee rocks of Selair,  
their location in the Altay-Sayanokaya hyperbasite province, and certain  
questions relating to the problem of hyperbasitee rocks in general."  
Tomsk, 1958. 15 pp. (Min of Higher Education USSR. Tomsk Order of  
Labor Red Banner Polytech Inst in S.M.Kirov), 100 copies (IL, 46-58, 139)

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PINUS, G.V., KUZNETSOV, V.A., VOLOKHOV, I.M.; LEONT'YEV, L.I., doktor geologo-mineralogicheskikh nauk; otvetstvennyy redaktor; LADYCHUK, L.P., redaktor izdatel'stva; ASTAF'Yeva, G.A., tekhnicheskiy redaktor.

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Lists five books by Kheyfits, including three on  
problems of dust in mines. Volokhov states that:

- (1) Kheyfits is often wrong.
- (2) Books lack unity,  
and recommendations are often contradictory.
- (3) Same data is included in several books.

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Card 1/1 : Pub. 123 - 5/13

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